

LISTING OF CLAIMS

This listing of claims will replace all prior versions and listings of claims in  
5 the application:

1. - 15. (canceled)

16. (currently amended) The dispensing apparatus of claim [15]36, wherein the  
10 two partly overlapping cylindrical bores have a region of overlap and the two  
partly overlapping cylindrical bores having internal walls that are substantially  
parallel, and wherein the helical threads of the two feed screws are in sliding  
contact with the internal walls of the [third]middle portion of the chamber and  
where the helical threads of the two feed screws are intermeshing in the region  
15 of overlap.

17. (currently amended) The dispensing apparatus of claim [15]16, wherein the  
two feed screws further comprise helical threads having a variable pitch that  
decreases as the helical threads approach the [second]bottom portion of the  
20 chamber.

18. - 33. (canceled)

34. (currently amended) A method of dispensing a viscoelastic liquid from a  
25 dispensing apparatus comprising the steps of:

introducing a first component viscoelastic liquid to a first feed screw  
disposed within a chamber;

introducing a second component viscoelastic liquid to a second feed  
screw disposed within the chamber; and

30 counter rotating the first and second feed screws a pre-selected amount,  
[to mix]mixing the first and second component viscoelastic liquids forming a  
viscoelastic liquid product and [dispense]dispensing a measured amount of the  
viscoelastic liquid product.

35. (currently amended) A method of dispensing a viscoelastic liquid from a dispensing apparatus comprising the steps of:

introducing a first component viscoelastic liquid to a first feed screw disposed within a chamber;

introducing a second component viscoelastic liquid to a second feed screw disposed within the chamber; and

co-rotating the first and second feed screws a pre-selected amount, [to mix]mixing the first and second component viscoelastic liquids forming a viscoelastic liquid product and [dispense]dispensing a measured amount of the viscoelastic liquid product.

36. (new) A dispensing apparatus capable of delivering precise quantities, comprising:

15 a drive mechanism;

at least two input channels coupled to a chamber, the chamber comprising a top portion, a middle portion, and a bottom portion, wherein the middle portion includes two partly overlapping cylindrical bores; and

at least two feed screws having helical threads and disposed in the 20 chamber, the at least two feed screws are rotatably supported in the two partly overlapping cylindrical bores, and rotated by the drive mechanism, such that a first component viscoelastic liquid is delivered through a first input channel of the at least two input channels to the chamber, and a second component viscoelastic liquid is delivered through a second input channel of the at least two 25 input channels to the chamber, the first input channel and the second input channel disposed so that interaction is hindered between the first component viscoelastic liquid and the second component viscoelastic liquid in either input channel, wherein the at least two feed screws mixing the first and second component viscoelastic liquids forming a viscoelastic liquid product and the at 30 least two feed screws further discharging the viscoelastic liquid product from the chamber.

37.(new) A dispensing apparatus capable of delivering precise quantities, comprising:

a drive mechanism;

5 at least two input channels coupled to a chamber comprising a top portion, a middle portion, and a bottom portion, wherein the middle portion includes two non-overlapping cylindrical bores having internal walls that are substantially parallel; and

10 at least two feed screws having helical threads and disposed in the chamber, where the at least two feed screws are rotatably supported in the two non-overlapping cylindrical bores of the barrel body, and wherein the helical threads of the two feed screws are in sliding contact with the internal walls of the third portion of the chamber and where the helical threads of the two feed screws are non-intermeshing, such that a first component viscoelastic liquid is

15 delivered through a first input channel of the at least two input channels to the chamber, and a second component viscoelastic liquid is delivered through a second input channel of the at least two input channels to the chamber, where the first input channel and the second input channel are disposed so that interaction is hindered between the first component viscoelastic liquid and the

20 second component viscoelastic liquid in either input channel, wherein the at least two feed screws, rotated by the drive mechanism mixes the first and second component viscoelastic liquids to form a viscoelastic liquid product and discharges the viscoelastic liquid product from the chamber.